

Insurance Brokers Association of Uganda – IBAU The Broker's Role in Insurance Growth – The Actuarial Perspective

Kenbright Actuarial and Financial Services Limited

Ernest Magezi Barusya – CEO Uganda

February 2022









About Us

Kenbright Actuarial & Financial Services Limited (KAFS)

- Subsidiary of Kenbright Holdings
 - Established for 25 years in the East African market
- First local Actuarial Company to be registered with IRA



 Second Actuarial Company in the entire African continent to be accredited for Quality Assurance by the Institute and Faculty of Actuaries (UK)



About Kenbright? Why Kenbright?

- Actuarial Services
 - Appointed Actuary, Products Design & Pricing, Asset Liability Management, Capital Modelling, Reinsurance Optimization
- IFRS 17 Implementation

PROPHET Actuarial Software Implementation, Training Staff on Actuarial Software

Regulatory Advisory

Compliance and Liaison, Corporate Governance, Strategy Formulation and Review

Staff

Fully qualified Actuaries

Local Availability

On demand access to presentations to Senior Management & the Board



Insurance Brokers Association of Uganda

About Kenbright

Your Innovative Financial Partner

Kenbright Actuarial & Financial Services – Accredited to provide Actuarial Advisory & Enterprise Risk Management Services

Kenbright Insurance Brokers – Licensed to provide Risk & Insurance Advisory Services

Kenbright Reinsurance Brokers - Accredited to provide Reinsurance Advisory & Optimization Services

Kenbright Healthcare Administrators – Provision of Fund Management & Health Insurance Services

Pan African Innovations - Mint, Vehicle & Smart Health







Other Services Other Areas for Future Consideration

Insurance Brokers Association of Uganda ibau Financial Condition Product Reviews & IFRS 17 Risk Management Development Report Annual Financial Condition Report in **ERM Framework** Implementation of IFRS New products pricing accordance with IRA 17 standard development requirements Existing products' Board & Staff Training Presentation to Board Internal policies and performance Actuarial and senior management process reviews reviews T. TOO. OO



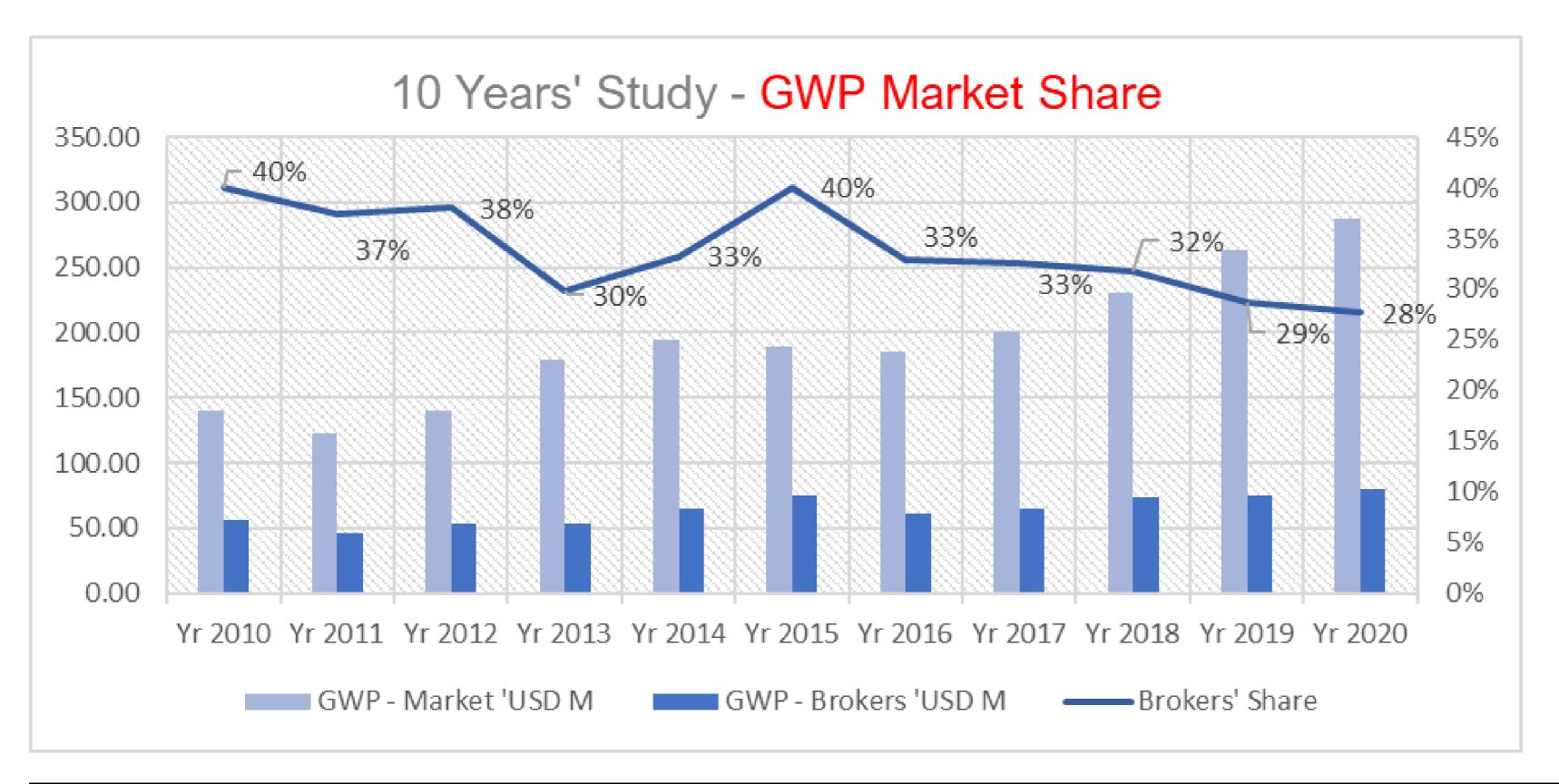


IBAU's Strategy



2020 to 2022 – **Strategy No. Six**

Increase Total Market Share of GWP by 21% (From 31% to 53%) by close of 2022



40% Yr. 2010

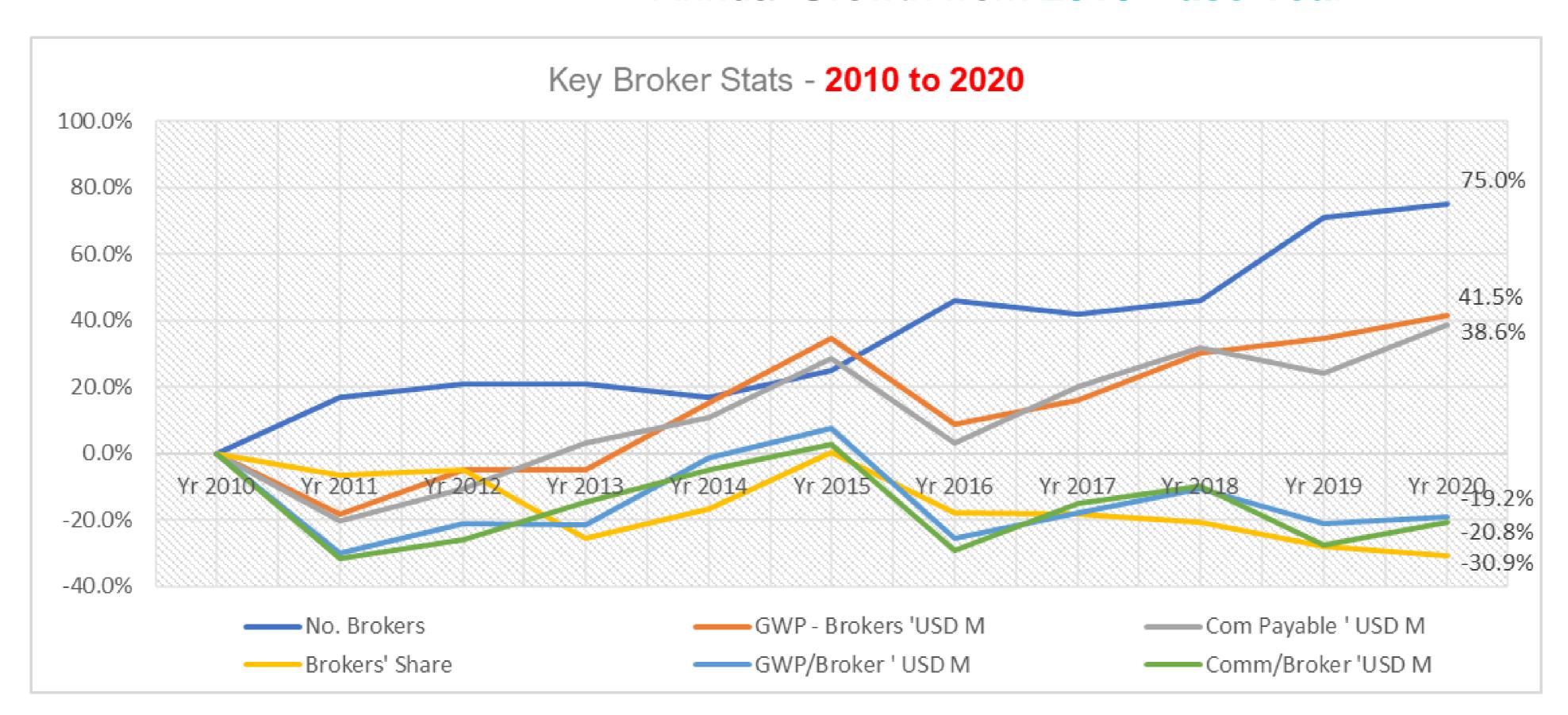
28% Yr. 2020

Business Year	Yr 2010	Yr 2011	Yr 2012	Yr 2013	Yr 2014	Yr 2015	Yr 2016	Yr 2017	Yr 2018	Yr 2019	Yr 2020
GWP - Market 'USD M	140.52	123.08	140.41	179.04	194.38	189.01	185.84	200.00	230.75	262.89	287.53
GWP - Brokers 'USD M	56.21	46.00	53.45	53.36	64.67	75.66	61.16	65.29	73.25	75.57	79.52

Key Broker Stats



Annual Growth from 2010 Base Year



75%

No. Brokers

42%

GWP by Brokers

39%

Com. for Brokers

(31)%

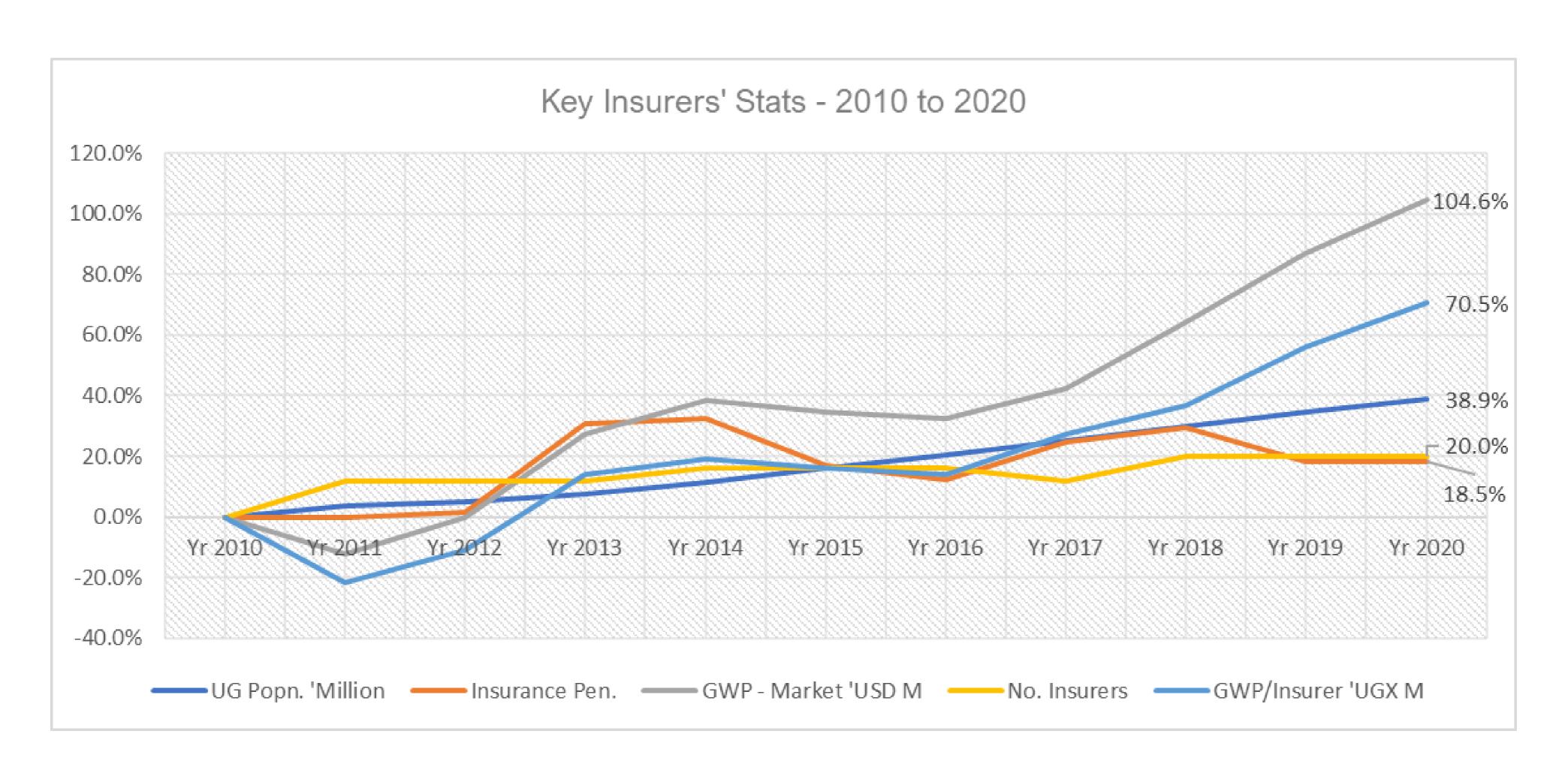
(19)%

(21)%

Brokers GWP per Share Brokers GWP per Brokers

Key Insurer StatsAnnual Growth from 2010 Base Year





105%

GWP Growth

71%

GWP per Insurer

39%

UG's Population

20%

No. of Insurers

19%

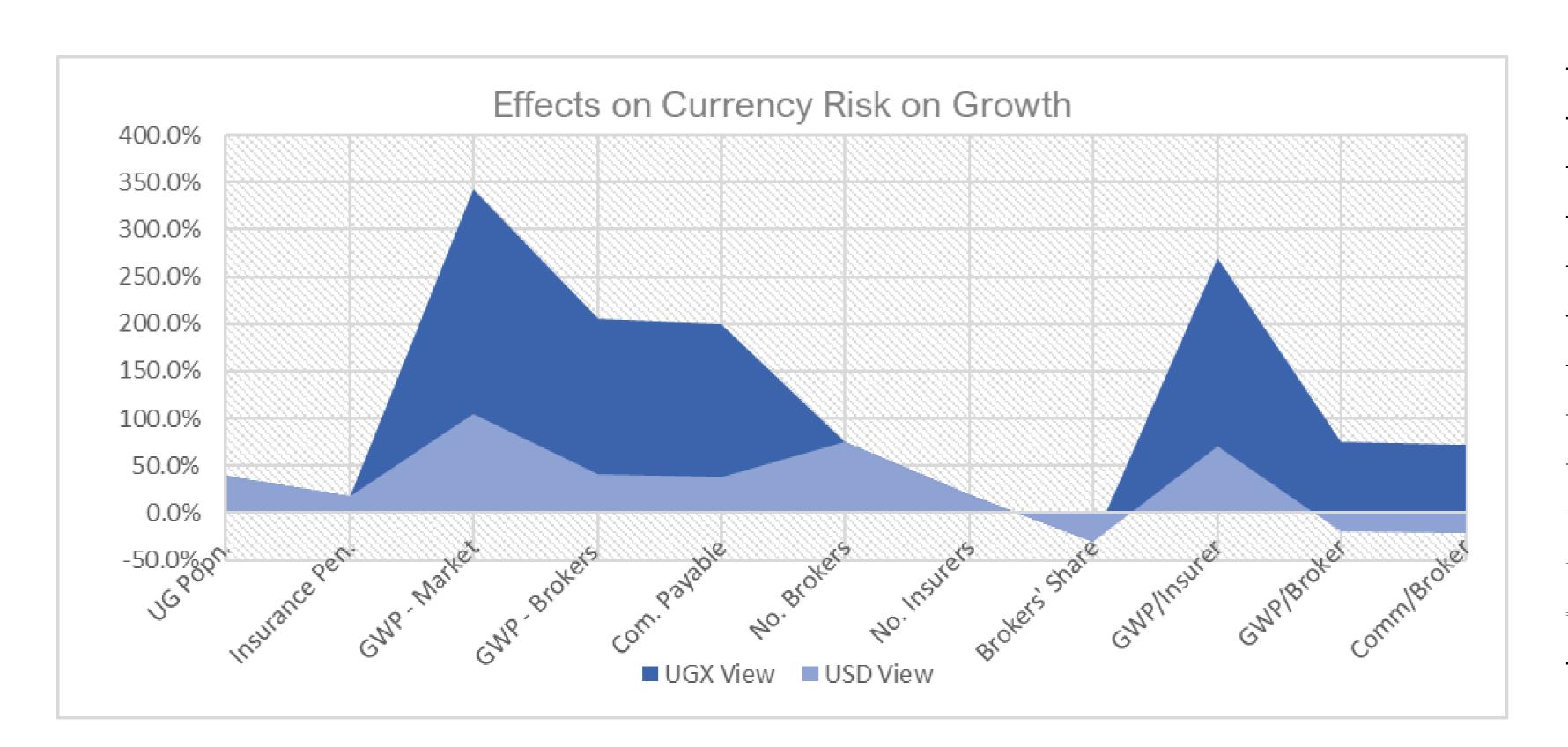
Insurance Penetration

41%

GDP Growth

Currency Risk Effect on Insurance Growth - 2010 Vs 2020



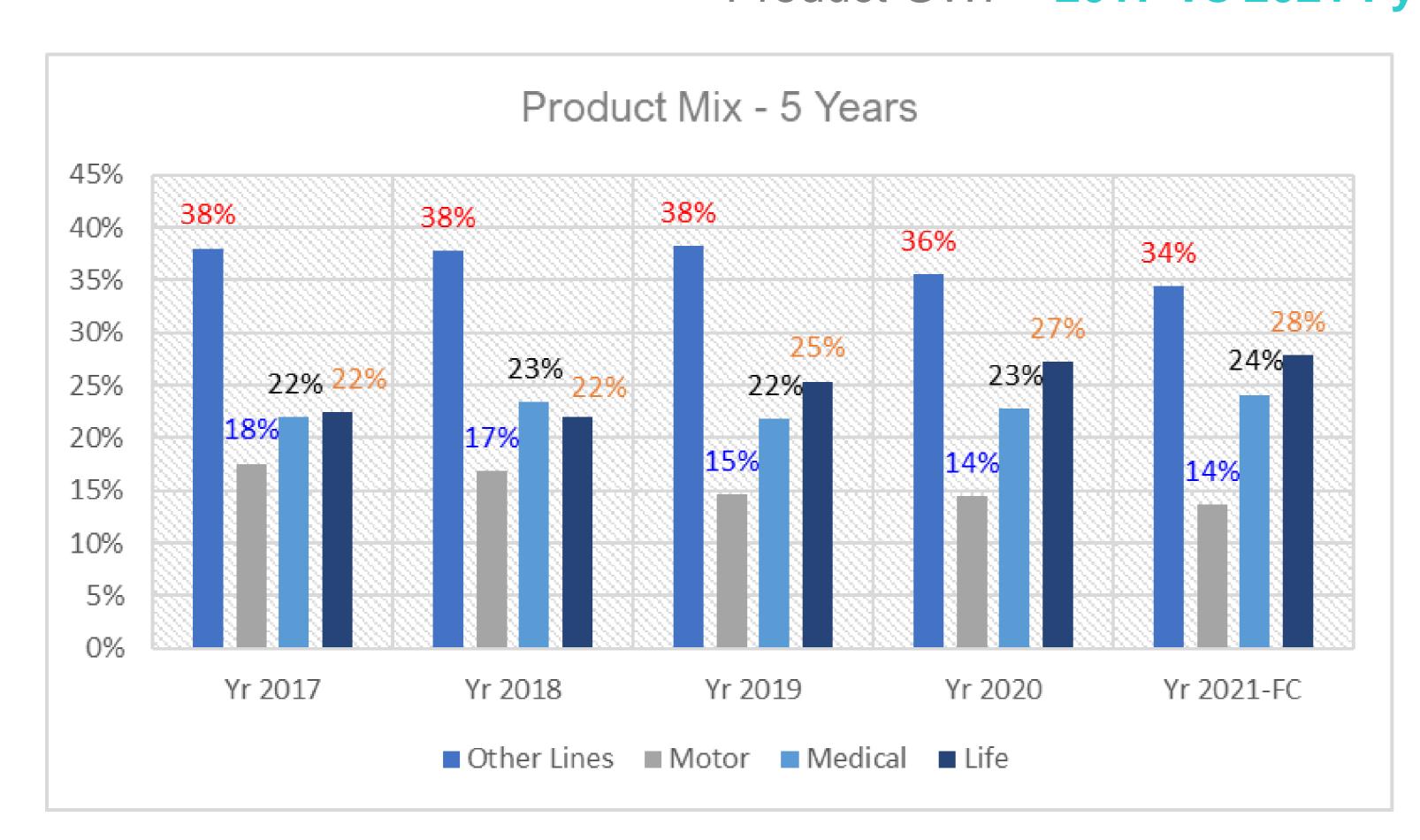


Business Year	UGX View	USD View	Net Effect
UG Popn.	38.9%	38.9%	Nil
Insurance Pen.	18.5%	18.5%	Nil
GWP - Market	342.9%	104.6%	-238.3%
GWP - Brokers	206.3%	41.5%	-164.8%
Com. Payable	200.0%	38.6%	-161.4%
No. Brokers	75.0%	75.0%	Nil
No. Insurers	20.0%	20.0%	Nil
Brokers' Share	-30.9%	-30.9%	Nil
GWP/Insurer	269.1%	70.5%	-198.6%
GWP/Broker	75.0%	-19.2%	-94.2%
Comm/Broker	71.4%	-20.8%	-92.2%

• In UGX, Brokers' GWP growth in 2020 Vs 2010 is 206%, In USD, this is equivalent to 42% ONLY.

Product Mix Product GWP - 2017 Vs 2021 Fy FC





	Product Mix - 5 Years							
Product Line	Yr 2017	Yr 2018	Yr 2019	Yr 2020	Yr 2021-FC			
Fire	11.9%	11.4%	12.1%	11.4%	8.5%			
Burglary	1.7%	1.3%	1.0%	1.1%	1.3%			
P. Accident	6.3%	5.0%	5.4%	5.5%	4.2%			
Work. Comp	2.1%	1.5%	1.2%	1.2%	0.9%			
P.Liability	1.7%	1.9%	1.5%	1.7%	2.0%			
Marine/Av.	4.6%	3.9%	4.2%	4.3%	5.3%			
Motor	17.6%	16.8%	14.7%	14.4%	13.6%			
Bonds	1.3%	1.2%	1.4%	1.5%	1.0%			
Engineering	3.8%	4.6%	3.3%	3.8%	3.0%			
Medical	14.4%	15.7%	13.8%	15.8%	20.1%			
HMO	7.6%	7.7%	7.9%	7.0%	4.0%			
Miscell.	4.5%	6.9%	8.2%	5.1%	8.1%			
Life Individual	9.5%	8.9%	19.8%	16.7%	17.0%			
Life Group	10.1%	11.3%	4.2%	6.6%	6.4%			
Deposit Admin	2.9%	1.8%	1.4%	3.9%	4.5%			

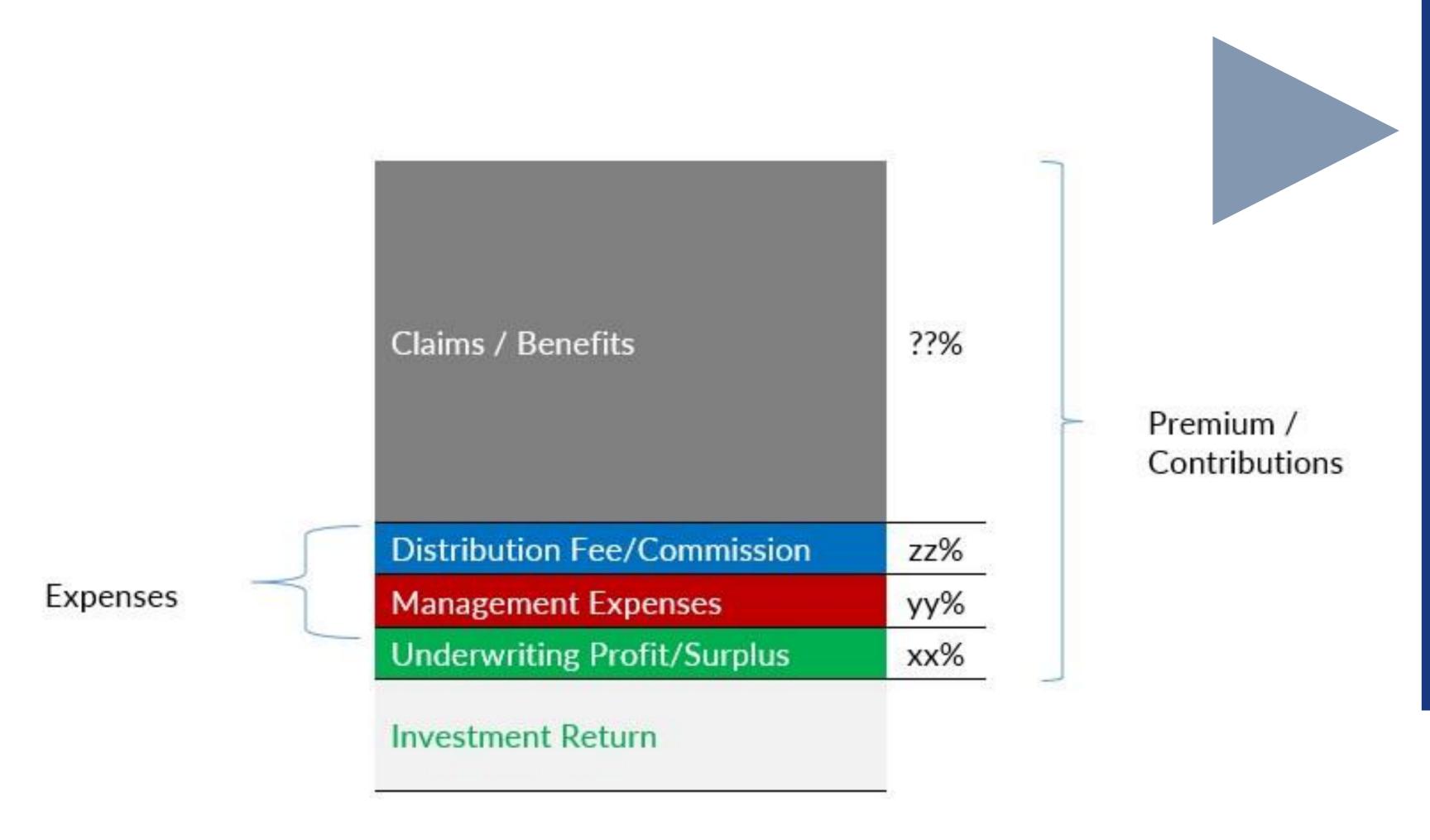
- Market Share for Medical & Life products is highest in 2021
- Market Share for Motor & Other Lines is lowest in 2021





Key Pricing Parameters

Pricing a profitable Insurance Product



- Clear understanding of this Model from (-) to (+) Underwriting Margin – Risk Based Rating
- Every department MUST appreciate this model and how they feed into it.

Key Insurance Ratios

Indicators of Profitability – General Business Case Study

	INDU	STRY	MARKET	LEADER
Key Ratios	Q3, 2021	Q3, 2020	Q3, 2021	Q3, 2020
Retention Ratio	53.4%	55.3%	68.2%	67.2%
Claims Ratio	53.7%	43.6%	66.0%	56.1%
Mgt Expense Ratio	36.8%	40.0%	22.4%	23.7%
Com Ratio	-8.4%	-8.5%	-8.8%	-8.7%
Combined Ratio	82.1%	75.0%	79.7%	71.0%

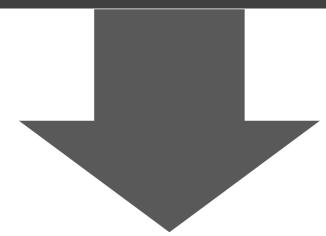
- Retention Ratio (A) % of risk premium that the Insurer doesn't cede to the Reinsurer
- Claims Ratio (B) % of risk premium that the Insurer pays out in Claim Expenses
- Management Expense Ratio (C) % of risk premium that the Insurer uses to pay for Office, operational, Marketing & Staff
 Expenses.
- Commission Ratio (D) % of risk premium that is paid off to intermediaries for business development (Can be (-) is Reinsurance Commission is higher than the Commission expense).
- Combined Ratio (B)+(C)+(D) If Equal to 1 (Breakeven), If Less than 1 (Profitable), If Greater than 1 (Loss Making).



The Retail Problem

Individual	Life vs	Individua	al Medical
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						Gro	wth
Industry	Yr 2016	Yr 2017	Yr 2018	Yr 2019	Yr 2020	3Yr	5Yr
Total Life	132.5	170.1	220.6	269.2	324.2	47.0%	144.7%
Individual Life	50.2	65.7	75.8	190.8	177.5	134.1%	254.0%
Prudential Individual Life	2.0	6.5	16.6	26.7	44.3	166.8%	2125,7%
Individual Medical	2.7	3.2	4.1	4.5	4.8	18.6%	76.3%



WHAT WENT WRONG?

Key Facts

- Individual Life now forms over 70% of entire Medical insurance Industry
- Only 5,000 Lives with Retail Medical Insurance Policies
- BUPA, CIGNA, ALLIANZ, AETNA, having market share Retail
- What are we developing for the Retail Space in Uganda?
- A need for Key Synergies, Partnerships & Aggregation? Bancassurance & Brokers





Universal Coverage



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NHIS Bill

Scheme Aspects	Status
The Bill	Bill stage- Passed by Parliament in Draft Form - Pending Cabinet Review
	Members' contributions – 4% of gross salary/wages
	Employers' contributions – 1% of gross salary
Contribution to	Informal Sector (Self employed) - UGX 100,000 Annually
the scheme	Retired (Pensioners) - 1% of monthly pension
	Not employed (Poor, orphans, PwDs) - zero contribution
	Other sources, including Donor Funds, Loans, GoU
Benefit Package	Unspecified Minimum Package - Benefits / Limits yet to be determined
	Formal Sector (Government Employees)
	Formal Sector (Private Sector Employees)
Target Market	Informal Sector (Self Employed)
	Retired (Pensioners)
	Not employed (Poor, orphans, PwDs)
	All Government Hospitals and Health Centres
Provider Network	Privately Facilities & Non-Gov't facilities accreditated based on scheme affordability
	Might offer high copayments on high cost providers
Coexistence with	Potential for Providing supplimentary medical insurance cover
Private Insurers	Association Advantage - Good for Sensitization
	Lots of untapped Market - A call for Targeted Innovation

- Further Actuarial
 Feasibility Study to be done
- No Light in the Short term for Implementation
- Insurers to maximize the opportunities around this uncertain wave- Innovation to tap into the Mass Markets.

Opportunities

Market siz

Key Stats - Market Potential

Total Population Total Adult Population	47,279,712, 2021 Est 22,285,035, 2020 Est
Population below 18 Years	24,994,677, 2020 Est
Private Health Insurance Uganda	UGX 241.6 Billion, 2020 Est
PruMed	·

No. Insureds on Private Health Insurance	
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Size of informal Sector	2,500,000, 2020 Es

Size of Fublic Sector				778,500		
		_				

No. of Civil Servants-	GoU	319,000
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	No. of SME's - UIA Registered	800,000
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No. of Teachers - (Primary)	202,617
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No. of Secondary Schools	3,220
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No. of Primary Schools	20,314
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No.	of l	Jniversities	5	2
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No. of Teachers - (Tertiary)	58,100
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No. of PAYE Contributors	1,594,116, 2019 Est
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No. of UPDF	46.800	, 2019 Est
110: 01 01 01	10,000	, LOID LOC

No. of Police 44,897, 2015 Est

No. of Health Workers 107,000, 2019 Est



Less than 1% of Ugandans on Private Medical Insurance

How else can we make our Motor Insurance affordable???

What else can we cross sale with Motor Insurance???



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Products

Affordability matched with Profitability – Hospital Cash

Key Assumptions

- Inpatient Admission rate of 12% per annum
- Length of Stay Trends (chart)
- Target Loss Ratio 50%

Annual Premium

• UGX10,800 for a Daily Benefit of UGX10,000

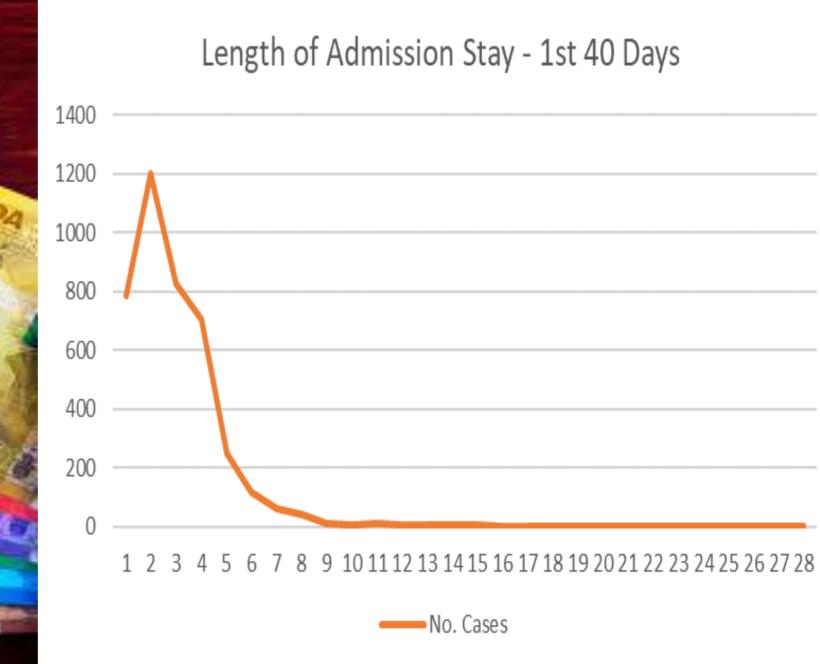
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• UGX158,400 for a Daily Benefit of UGX150,000

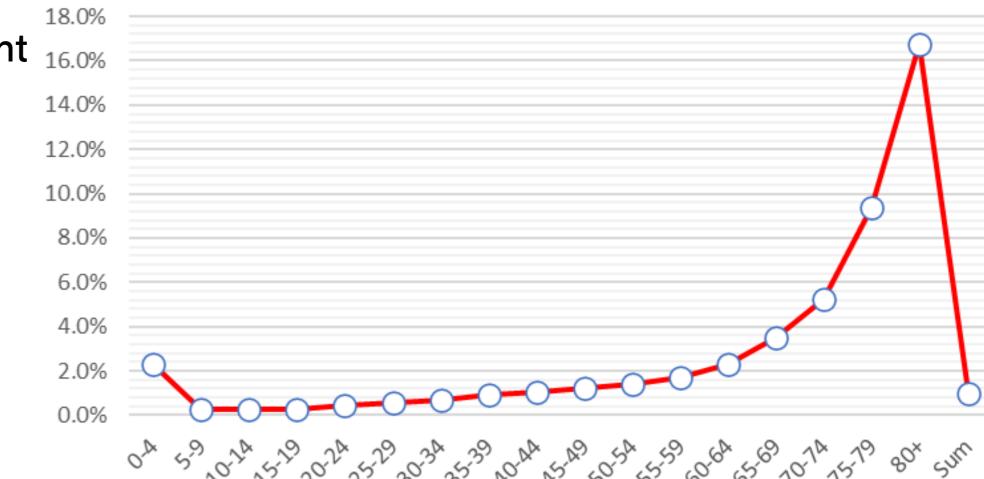




Products

Affordability matched with Profitability – Last Expenses

- Trigger- Death
- Benefit Payout- Fixed Payment
- Use of Third Parties- Limited Burial Permit is a government –issued document 16.0%
- Key Advantages
 - Simple and easy to understand & digitize
 - Relatively cheap & easy to bundle
- Key Disadvantage
 - Stigma
- Scope
 - Pays a death benefit within 48hours on confirmation of death *(using a burial permit)* of the insured member. Age limit usually a maximum of 70 years on entry.
- Limits
 - Ranging Between UGX500,000 UGX10,000,000
- NO Exclusions (With Reinsurer's confirmation)
- Key Assumptions
 - Average Death Rate per annum 10 per mille, Target Loss Ratio 40%



Mortality Rate 0 to 80 Years



Products

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Affordability matched with Profitability – Critical Illness

- Trigger- Diagnosis of specified conditions
- Benefit Payout- Fixed Payment
- Use of Third Parties- Hospital/ Specialist to confirm diagnosis
- Key Advantages
 - Relatively cheap & easy to bundle
- Key Disadvantage
 - Limited conditions covered
- Scope
 - Bundled with Hospital Cash (due to licensing limitations)
 - Pays a fixed benefit within 48hours on confirmation of diagnosis (using a burial permit) of the insured member. Age limit usually a maximum of 70 years on entry.
- Limits
 - Ranging Between UGX500,000 UGX7,500,000
- NO Exclusions (? To Confirm with Reinsurer)
- Key Assumptions
 - Average Diagnosis Rate per annum -15 per mille, Target Loss Ratio 50%

Annual Premium

UGX16,500 for a Critical Illness
 Benefit of UGX500,000

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UGX247,500 for a Critical Illness
 Benefit of UGX7,500,000



Products

Affordability matched with Profitability – Others

- Accident Only Plans
- Illness Only Plans
- Inpatient Only Plans
- Motor Microinsurance
 Plans
- Combination All above

- Vehicle Type Risk Profiling
- Motor Accident Inpatient Plans that only cover a specific journey
- Motor Comprehensive Plans tailored for specific journeys.
- A shift from Business Retention to New Business Development – Award better commission to New-New Acquired business







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Key Actuarial Technical Reserves

Indicators of Financial Strength

Reserves are computed through Actuarial Valuation normally quarterly or on an annual basis by the Actuarial Function of the Business.

Reserve Type	Methodology	Rationale
	Claim Reserves	
Outstanding Claim Reserve (OCR)	Case Estimate Method	For Claims reported by policy holders but Not yet settled by the Insurer
Incurred But Not Reported Reserve (IBNR)	Chain Ladder, Average Cost per Claim Method (ACPC) & Bornhuetter-Ferguson	For Claims Incurred by policy holders but Not yet Reported to the Insurer
	Premium Reserves	
Unearned Premium Reserve (UPR)	"365ths" method or "24ths" method for gross premium	For Insurer's premium portion that can be claimed by policy holders in the unfortunate closure of the Insurer.
Additional Unexpired Risk Reserve (AURR)	Estimated value of future claim to be incurred in unexpired exposure periods less ('UPR')	For claims portion that exceeds the unexpired portion of premiums for running policies





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Key Insurance Parameters

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Reactiveness to Proactiveness

Key parameters can be monitored by the Actuarial Function of the Business daily, monthly, quarterly or annually







Pricing Parameters



Demographic Parameters

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liaison with the Actuarial Function

Insurance Financials

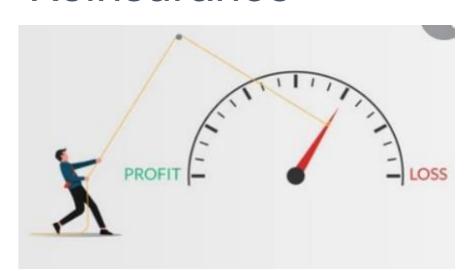


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Statement of Comprehensive Y Computed by the Accounting Function in

Financial Parameter	Value	Financial Parameter	Value
Gross written premiums-new	(A)	Commissions payable	Commission to Brokers -(L)
Gross written premiums-renewal	(B)	Operating expenses	(M)
Gross written premiums	(C)=(A)+(B)	Selling and distribution expenses	X3
Unearned premium	(D)	Finance costs	X4
Gross earned premium	(E)=(C)+(D)	Profit before tax	(N)=(H)-(K+M+L+X3+X4)
Premiums ceded to reinsurers	(F)	Investment income	(Y)
Net earned premium	(G)=(E)-(F)	Underwriting profit	(P)=(N)-(Y)
Fees and commission income	Commission from Reinsurers -X0	Gross Ratios	
Investment income	X1	Claims ratio	(Q)=(I)/(E)
Other operating income	X2	Commission ratio	(R)=(L)/(E)
Total income	(H)=X0+X1+X2	Management expense ratio	(S)=(M+X3+X4)/(E)
Gross benefits and claims incurred	(I)	Combined ratio	(T)=(Q+R+S)
Claims ceded to reinsurers	(J)	Underwriting profit margin	(U)=1-(T)
Net claims incurred	(K)=(I)-(J)	Profit before tax margin	(V)=(N)/(H)

Ratios computed both on Gross & Net of Reinsurance



Insurance Financials

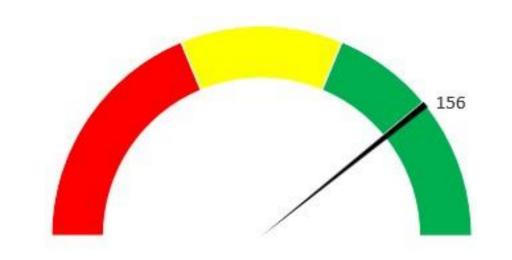
Statement of Financial Position



(A) should be equal to (D)

Financial Parameter	Value	Financial Parameter	Value	
ASSETS		EQUITY		
Property and equipment		Share capital		
Right of use asset		Share premium reserve		
Intangible assets		Contingency reserve		
Government securities		Accumulated losses		
Deposits with financial institutions		Profit for the year		
Corporate bonds		TOTAL EQUITY	(B)	
Deferred tax asset		LIABILITIES		
Current income tax		Insurance contract liabilities		
Insurance receivables	receivables Provision for unearned premiums:			
Receiveables arising out of reinsurance arrangements Amounts payable under fund administration of the control		stration contracts		
Reinsurer's share of reinsurance liabilities and provisions		Payables arising out of reinsurance arrangement		
Amounts receivable under fund adminis	stration contracts	Current income tax		
Deferred acquisition costs		Other payables		
Other receivables		Lease liability		
Inventory		Amount due to related parties		
Amounts due from related parties		Profit before tax margin		
Cash and bank balances		TOTAL LIABILITIES	(C)	
TOTAL ASSETS	(A)	LIABILITIES+EQUITY	(D)=(B)+(C)	

Capital Adequacy Ratio - CAR



$$CAR = rac{Available\ Capital}{Required\ Capital}$$

Computed by the Accounting Function in liaison with the **Actuarial Function**

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